

**SAS Superstructure**

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 22-Nov-14

Time 4:01 AM

**Daily Diary Report by Bid Item**

Contract No.: 04-0120F4

Diary #: 330 Const Calendar Day: 25 Date: 29-Jun-2012 Friday

Inspector Name: Wright, Doug Title: Transportation Engineer

Inspection Type: No Inspection

Shift Hours: 03:15 AM 02:30 PM Break: 00:30 Over Time: 02:00

Federal ID:

Location:

Reviewer: Schmitt, Alex

Approved Date:

Status: Submit

**04-0120F4  
04-SF-80-13.2/13.9  
Self-Anchored  
Suspension Bridge****Weather**

Temperature	7 AM	12 PM	4 PM
Precipitation			Condition

Working Day ☒ If no, explain:**Diary:**

Dispute

**Swing Out Activities**

I spent today doing survey checks on the Cable. TY Lin wanted some data on how much the Cable main-spans have rotated due to the swing-out of the Cable (pulled outward 5.4m at PP104). Matt Bruce, Brian Wolcott, & I laid out the new top-center of the Cable to be able to determine the amount of rotation.

- At 03:15, I arrived at the pier 7 office, & was on the bridge at 03:25.
- From 03:30 until 03:50, we gathered some equipment, & walked up the stair tower to the top of the main-span.
- From 03:50 until 05:15, we laid out the top-center of Cable along the South main-span from PP44 to PP100. We also measured the arc length between the old top-center of Cable & the new top-center of Cable.
- From 05:15 until 06:30, we laid out the top-center of Cable along the North main-span from PP44 to PP102. We did not measure the arc lengths at this time because we were running out of time when the temperature was constant.
- At 06:30, we had to stop the top-center of Cable lay-out since the sun was up & warming the Cable. At this time, Matt left to go back to the office.
- From 06:30 until 08:15, I measured the arc length between the old top-center of Cable & the new top-center of Cable along the North main-span. See below for a list of the measured arc lengths.
- From 08:30 until 10:00, I went back to the pier 7 office to start compiling the data collected, & speak with Warren Collins about some preliminary results of the checks.
- At 10:15, I arrive back on the bridge.
- From 10:15 until 12:00, I did some re-checks on the arc lengths between the old top-center of Cable & the new top-center of Cable along the South main-span. See below for a list of the measured arc lengths.
- At 13:00, I left the bridge.
- From 13:15 until 14:00, I finished compiling the Cable rotation survey data collected today.
- From 14:00 until 14:30, I wrote my diary for the day, & checked email.

Below is a list of the amount & direction of Cable rotation due to Cable swing-out for the North main-span:

Note: 1 degree of rotation is equal to 6.8mm of arc length

PP# - Rotated Arc L - Direction of rotation (clockwise or counter CW, looking East)

44N - 13mm - Counter-CW

46N - 33mm - Counter-CW

48N - Not measured, covered by suspender erection frame

50N - 40mm - Counter-CW

52N - 39mm - Counter-CW

54N - 30mm - Counter-CW

56N - 20mm - Counter-CW



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58N - 15mm - Counter-CW  
60N - 10mm - Counter-CW  
62N - 2mm - Counter-CW  
64N - 4mm - CW  
66N - 5mm - CW  
68N - 0mm  
70N - 0mm  
72N - 4mm - CW  
74N - 0mm  
76N - 4mm - CW  
78N - 5mm - Counter-CW  
80N - 2mm - CW  
82N - 4mm - Counter-CW  
84N - 2mm - Counter-CW  
86N - 3mm - CW  
88N - 14mm - CW  
90N - 17mm - CW  
92N - 32mm - CW  
94N - 35mm - CW  
96N - 52mm - CW  
98N - Not measured, no Cable band installed to climb on for access  
100N - 83mm - CW  
102N - 80mm - CW

Below is a list of the amount & direction of Cable rotation due to Cable swing-out for the South main-span:

Note: 1 degree of rotation is equal to 6.8mm of arc length

PP# - Rotated Arc L - Direction of rotation (clockwise or counter CW, looking East)

44S - 7mm - CW  
46S - 28mm - CW  
48S - Not measured, covered by suspender erection frame  
50S - 52mm - CW  
52S - 42mm - CW  
54S - 38mm - CW  
56S - 37mm - CW  
58S - 20mm - CW  
60S - 20mm - CW  
62S - 10mm - CW  
64S - 6mm - CW  
66S - 2mm - CW  
68S - 4mm - CW  
70S - 4mm - Counter-CW  
72S - 1mm - CW  
74S - 2mm - CW  
76S - 9mm - CW  
78S - 0mm  
80S - 6mm - CW  
82S - 2mm - Counter-CW  
84S - 5mm - CW  
86S - 0mm  
88S - 5mm - CW  
90S - 6mm - Counter-CW  
92S - 4mm - CW  
94S - 18mm - Counter-CW  
96S - 44mm - Counter-CW



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### ***Daily Diary Report by Bid Item***

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**Inspector Name** Wright, Doug

**Diary #:** 330

**Date:** 29-Jun-2012    **Friday**

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98S - Not measured, no Cable band installed to climb on for access  
100S - 76mm - Counter-CW  
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